IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

BUNKER Atty. Ref.: 839-1333

Serial No. 10/065,495 Group: 3746

Filed: October 24, 2002 Examiner: Unknown

For: COMBUSTOR LINER WITH INVERTED TURBULATORS

July 24, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

RECEIVED

JUL 2 5 2003

TECHNOLOGY CENTER R3700

INFORMATION DISCLOSURE STATEMENT

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449, a copy of each of which is enclosed. This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

Please note that the reference entitled "Corporate Research and Development Technical Report, Section 3" may have proprietary information belonging to the assignee and, therefore, applicant reserves the right to file a Petition to expunge this reference from the record when prosecution has been completed.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

BUNKER Serial No. 10/065,495

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

Michael J. Keenan Reg. No. 32,106

MJK:ljb

1100 North Glebe Road, 8th Floor

Arlington, VA 22201-4714 Telephone: (703) 816-4000 Facsimile: (703) 816-4100

Sheet 1	of 2					,	
INFORMATION DISCLOSURE ATTY. DOCKET NO.			OCKET NO.	RIAL NO.			
	CITATION	839-1	333	10/065,495		_	
		APPLIC	ANT		RE	CEN	VED
	1P	FDINI	ZED		• • • •	– .	• — —
	/0,	BUN	KER		JU	L 25	2003
(Use	several sheets if nedessary)	ING I	DATE	GROUP			
	JUL 2 4 2003 Sectober 24, 2002				TECHNOLOGY CENTER R370		
	SITAT & TRA	, et 6					
*EVAMINED	TETRA	DEMAN. U	S. PATENT DOCUMENTS			FILING	DATE
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS		
	1,848,375	3/1932	Muir				
	2,801,073	7/1957	Savage				
	2,938,333	5/1960	Wetzler				
	3,229,763	1/1966	Rosenblad				
	3,572,031	3/1971	Szetela				
	3,664,928	5/1972	Roberts				
	3,899,882	8/1975	Parker				
	4,158,949	6/1979	Reider				
	4,184,326	1/1980	Pane, Jr. et al.				
	4,838,031	6/1989	Cramer				
	5,024,058	6/1991	Shekleton et al.				
	5,353,865	10/1994	Adiutori et al.				
		FOR	EIGN PATENT DOCUMENTS				
	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION NO
	JP 2001-164901	6/2001	Japan			х	
	61-280390	12/1986	Japan				
	9-217994	8/1997	Japan				
	JP-408110012-A	4/1996	Japan				
	OTHER DOC	UMENTS (in	cluding Author, Title, Date, Per	rtinent pages, e	tc.)		
			nt Technical Report Abstract Page a			October	2001.
			nt Technical Report Section 3," Bun				
	<u> </u>		lated Depressions (Pits, Grooves) in	a Smooth Wall,"	Afanas'yev et	al., Heat	:
	Transfer Research, Vol.			W.Cl 1 T		Y T	2000
			oled Turbine-Blade Coolant Passages				
İ	/ I		Transfer and Hydrodynamics withir 8-11, 2000, Munich Germany.	i a Single Heilisp	nencai Dinip	16, 1100	comigs
			n an Internal Cooling Passage," Chy	u et al. presented	at the Intern	ational G	as
			xhibition, Orlando, Florida, June 2-5				
			Surfaces Formed by a System of Sph		Belen'kiy et a	l., Heat T	ransfer
	Research, Vol. 25, No.	2, 1993.					
			and Hydraulic Characteristics of Hea		-	-	
.	1 .	igh Temperat	ures, Academy of Sciences of the US	SSR. Original arti	cle submitted	i Novemi	ber 28,
	1990.	177	ef Clarentini 6 Clair	Carthina	D1-4- " A.f.		
	•		ransfer Characteristics for Spherical	Cavities on a Flat	riate," Afan	asyev et a	и.,
	Experimental Thermal a		zed Flow Past a Hemispherical Cavi	ity " Heat Transfer	Research V	ol 25 N	os 2
	1993.	ores sur a miduli	200 I low I ast a Hellispherical Cavi	ity, iitat itansiti	ACCCUICIL, V	٠١. ش٢, ١٩	· · · · · · · · · · · · · · · · · · ·
<u>-</u> -	1-7-0.			· · · · · · · · · · · · · · · · · · ·			

*Examiner Date Considered

Sheet 2 o	f 2	1	_						
			Atty. I	Pocket N .	ial	No.			
INFORMATION DISCLOSURE			839-1333		10/0	10/065,495 RECEIVED			
				Applicant					
		CITATION	RIIN	IKER			חבי		
(Use	seve	eral sheets if pe (e) sary)	C. Filing		Group		113	L 2 5 2003	
		1 212			•		301 2 3 2003		
		JUL 2 4 20	# #Octo	ober	3746		TECHNOL	ogy céntér r 370	
		\	79/				12011110		
		VIEW & TRAD	MARC	U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,361,828	11/1994	Lee et al.				The state of the s	
		5,363,654	11/1994	Lee					
		5,419,039	5/1995	Auxier et al.					
		5,421,158	6/1995	Stenger et al.					
		5,460,002	10/1995	Correa					
		5,651,662	7/1997	Lee et al.					
		5,660,525	8/1997	Lee et al.					
	<u> </u>	5,681,144	10/1997	Spring et al.					
	_	5,695,321	12/1997	Kercher					
	<u> </u>	5,724,816	3/1998	Ritter et al.				· · · · · · · · · · · · · · · · · · ·	
	ļ	5,738,493	4/1998	Lee et al.					
	<u> </u>	5,758,503	6/1998	Dubell et al.					
	<u> </u>	5,797,726	8/1998	Lee			<u> </u>		
	\vdash	5,822,853 5,933,699	10/1998 8/1999	Ritter et al. Ritter et al.			ļ. <u> </u>		
		5,975,850	11/1999	Abuaf et al.				<u> </u>	
	<u> </u>	6,098,397	8/2000	Glezer et al.					
		6,134,877	10/2000	Alkabie		· · · · · · · · · · · · · · · · · · ·			
		6,190,120	2/2001	Thatcher et al.					
		6,237,344	5/2001	Lee					
		6,314,716	11/2001	Abreu et al.		-			
-	7	Pub # 2001/005241 A1	12/2001	Pantow et al.					
		6,334,310	1/2002	Sutcu et al.					
		6,402,464	6/2002	Chiu et al.					
		6,408,629	6/2002	Harris et al.					
	<u> </u>	6,412,268	7/2002	Cromer et al.					
	<u> </u>	6,468,669	10/2002	Hasz et al.			ļ		
	<u> </u>	6,494,044	12/2002	Bland					
	<u> </u>	6,504,274	1/2003	Bunker et al.			ļ		
	L	6,526,756	3/2003	Johnson et al.				<u> </u>	
				ncluding Author, Title, Date, Pe	ertinent p	oages, e	tc.)		
				0,549, filed November 8, 2001.					
				3,467, filed April 25, 2002.		-			
		Patent Application Serial No. 10/162,755, filed June 6, 2002.							
				2,766, filed June 6, 2002.					
				4,605, filed July 30, 2002.					
				5,108, filed September 18, 2002.					
				5,115, filed September 18, 2002. 5,814, filed November 22, 2002.					
				1,672, filed November 22, 2002.			 		
	Щ	i ateni Application Seria	1 110. 10/30	1,012, IIICU 110 VCIIIUCI 22, 2002.					

*Examiner	Date Considered	
	1	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.